

REMARKS

The foregoing amendment does not include the introduction of new matter into the present application for invention. Therefore, the Applicant, respectfully, requests that the above amendment be entered in and that the claims to the present application be, kindly, reconsidered.

The Office Action dated October 9, 2003 has been received and considered by the Applicants. Claims 1, 4-12 and 15-18 are pending in the present application for invention. Claims 1, 4-12 and 15-18 stand rejected by the October 9, 2003 Office Action.

The Office Action objects to Claim 1 because -- on line 4, "loops."-- should be corrected as --loops;--. The foregoing amendment to Claim 1 has corrected this oversight.

The Office Action rejects Claims 1, 4, 6-12 and 16-18 under the provisions of 35 U.S.C. §102(b), as being anticipated by DE 94 10 532. The Examiner states that Figure 2 of DE 94 10 532 discloses the elements of the rejected claims. The Applicant, respectfully, disagrees. Figure 2 of DE 94 10 532 illustrates a coil with spaces between successive loops, however, there is nothing within DE 94 10 532 that would indicate that the spaces are "adjustable" spaces as recited by the rejected claims. Moreover, the surface material within DE 94 10 532 is not described as being a "surface of material connected to the air wound coil, wherein the surface of material is adapted to adjust a position of the plurality of sequential loops of the air wound coil for tuning the air wound coil, after the air wound coil is attached to the circuit board" as recited by the rejected claims.

The Examiner has listed a series of elements that pertain to the surface of material recited by the rejected claims and made the assertion that each of these listed elements are found within DE 94 10 532. The Applicant, respectfully, disagrees. These elements related to the surface of material listed by the Examiner are: to adjust a position of the plurality of sequential loops of the air-core coil for tuning the air-core coil; to be removable from the air-core coil without damaging the air-core coil; to bend the plurality of sequential loops to adjust the position of the plurality of sequential loops for the tuning the air-core coil; to be degraded by exposure to a solvent used to wash the circuit board; to be degraded by exposing the material to water and at least a portion of the surface of material can be removed; to be degraded by heating the circuit board; to flow when exposed to a soldering

temperature of eutectic Pb/Sn alloy; to sublimate when exposed to a soldering temperature of eutectic Pb/Sn alloy; to cut between each loops in the plurality of sequential loops of the air-core coil; and to be picked up using a vacuum probe of a head of a pick-and-place machine. The surface of material 4 as disclosed by DE 94 10 532 is a rectangular surface with a rectangular cross section and nothing more. There is no disclosure within DE 94 10 532 relating to the surface of material 4 that satisfies any of the elements listed by the Examiner. Moreover, there is no suggestion or motivation given by DE 94 10 532 to create a surface of material 4 that satisfies any of the listed elements. Accordingly, this rejection is, respectfully, traversed.

The Office Action rejects Claims 5 and 15 under the provisions of 35 U.S.C. §103(a) as being unpatentable over DE 94 10 532. The Examiner states that the elements of rejected Claims 5 and 15 are obvious design considerations. The Applicant, respectfully, disagrees. Rejected Claim 5 recites that “the surface of material does not extend over all of the loops of the plurality of sequential loops of the air wound coil so that the position of the plurality of sequential loops, over which the material does not extend, can be changed by bending the air wound coil for tuning the air wound coil.” The description to Figure 13 of the present invention contained on page 7 of the specification, beginning on line 2, clearly teaches bridging sections 225 and 226 that can broken off. This feature is not disclosed, or suggested, by DE 94 10 532.

Regarding rejected Claim 15 which specifically claims the invention by reciting:

“the surface of material includes a portion which is a removable from the air wound coil without damaging the air wound coil, so that the position of the plurality of sequential loops of the air wound coil can be changed to tune the air wound coil;

the surface of material does not extend over all loops of the plurality of sequential loops of the air wound coil so that the position of the plurality of sequential loops, over which the material does not extend, can be changed by bending the air wound coil for tuning the air wound coil;

the material is a flexible material, and in which the flexible material is adapted to bend the plurality of sequential loops to adjust the position of the plurality of sequential loops for tuning the air wound coil without otherwise damaging the air wound coil;

the material is adapted to be degraded by exposure to a solvent, wherein the solvent used to wash the circuit board after the air wound coil is connected to the circuit board, and wherein

the plurality of sequential loops are bent to adjust the position of the plurality of sequential loops for tuning the air wound coil;

the material is adapted to be degraded by exposing the material to water and at least a portion of the surface of material can be removed by exposing the surface of material to water;

the material is adapted to be degraded by heating the circuit board, and the air wound coil is tuned after the material is degraded;

the surface of material is adapted to flow when exposed to a soldering temperature of eutectic Pb/Sn alloy and in which at least one loop in the plurality of sequential loops is bendable for tuning the air wound coil after the surface of material flows;

the surface material is adapted to sublime when exposed to a soldering temperature of eutectic Pb/Sn alloy and in which at least one loop in the plurality of sequential loops is bendable for tuning the air wound coil after the surface of material sublimates;

the material is adapted to cut between loops in the plurality of sequential loops of the air wound coil so that the position of at least one loop in the plurality of sequential loops can be adjusted to tune the coil;

the material comprises a water soluble material;

the plurality of terminals comprise strait sections of the wire extending tangentially to the plurality of sequential loops of the air wound coil at the end of the air wound coil;

the wire is nearly pure copper;

the wire is between .05 mm and 1 mm in diameter;

a space between consecutive loops of the plurality of sequential loops is between 1.1 and 20 times the diameter of the wire; and

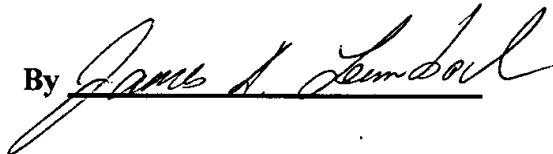
a diameter of each loop of the plurality of sequential loops is between 10 and 100 times the diameter of the wire.”

The Applicant, respectfully, asserts that the elements recited by rejected Claim 15 are more than an obvious design choice. These elements recited by rejected Claim 15 describe specific aspects of one of the embodiments of the present invention that are not disclosed, or suggested, by DE 94 10 532. The Applicant, respectfully asserts that the Examiner is simply taking the recited elements of the claimed invention and making the conclusory statement that these recited elements are simple design choices. These statements are made without providing any basis within the prior. Accordingly, this rejection is respectfully, traversed.

Applicant is not aware of any additional patents, publications, or other information not previously submitted to the Patent and Trademark Office which would be required under 37 C.F.R. 1.99.

In view of the foregoing amendment and remarks, the Applicant believes that the present application is in condition for allowance, with such allowance being, respectfully, requested.

Respectfully submitted,

By 

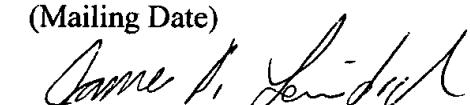
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on: January 9, 2004

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